

CLAIMS

1. A non-instantaneous-disruption hard handover (HHO) control device, disposed in a radio base station using a code-division-multiple-access (CDMA) technique, for handover of a call from a source baseband resource to a destination baseband resource, said HHO control device comprising:

a CFN message generation block (110), provided in a call-processing/maintenance processing block (109), for generating a connection frame number (CFN) which specifies a handover timing.

2. The non-instantaneous-disruption HHO control device according to claim 1, wherein said CFN message further includes information of said source baseband resource and information of said destination baseband resource.

3. The non-instantaneous-disruption HHO control device according to claim 1 or 2, wherein each of baseband signal blocks provided in said source baseband resource and said destination baseband resource includes:

a search block for generating acquired path information of corresponding said baseband resource;
a codec block for generating

radio-frame-synchronization identification information and
transmission-power control information of corresponding
10 baseband resource; and

an HHO-information write-in/read-in block for
collecting non-instantaneous-disruption HHO information
including radio-frame-synchronization identification
information, transmission-power control information, and
15 acquired path information of corresponding baseband
resource.

4. The non-instantaneous-disruption HHO control device
according to claim 3, wherein said baseband signal block of
said source baseband resource transfers said
source-baseband-resource HHO information to said
5 HHO-information write-in/read-in block of said destination
baseband resource upon receiving said CFN message, and
wherein said HHO-information write-in/read-in block of said
destination baseband resource transfers, before said CFN
occurring, said acquired path information of said source
10 baseband resource to said search block of said destination
baseband resource and said radio-frame-synchronization
identification information and said transmission-power
control information to said codec block of said destination
baseband resource.

5. The non-instantaneous-destination HHO control device according to claim 4, wherein said search block of said destination baseband resource generates acquired path information of said source baseband resource before said CFN occurring, and said codec block of said destination baseband resource generates said radio-frame-synchronization identification information and transmission-power control information of said destination baseband resource after said CFN occurring.

6. The non-instantaneous-disruption HHO control device according to claim 3, wherein said HHO write-in/read-in block stores therein said non-instantaneous-disruption HHO information of an uplink radio frame or a downlink radio frame.

7. A method for handover from a source baseband resource to a destination baseband resource without an instantaneous disruption in a radio communication system using a code-division-multiple-access CDMA technique, said method comprising the step of:

generating a CFN message including a connection frame number (CFN) specifying a handover timing in a radio base station.

8. The method according to claim 7, wherein said CFN message further includes information of said source baseband resource and information of said destination baseband resource.

9. The non-instantaneous-disruption HHO control device according to claim 8 or 9, further comprising the steps of:

generating acquired path information,
radio-frame-synchronization identification information and
5 transmission-power information of each of said source
baseband resource and said destination baseband resource,
and storing non-instantaneous-disruption HHO information
including said acquired path information,
radio-frame-synchronization identification information and
10 transmission-power control information.

10. The method according to claim 9, wherein said HHO information of said source baseband resource is transferred to said destination baseband resource upon receiving said CFN message, and said acquired path information of said
5 destination baseband resource is generated prior to said CFN occurring.

11. The method according to claim 8, wherein said HHO information is HHO information of an uplink radio frame or

a downlink radio frame.